

MAY 2012 MATERIALS UPDATE

Material ConneXion®

As part of our promise to provide our clients with the newest and most innovative materials sourced from around the world, we are pleased to present our monthly Materials Update. Here you will find the latest materials to have been added to the database, upon their acceptance by our regular jury process.

These materials can be seen online and on-site at our New York location. Selected materials are also available at our Cologne, Daegu, Milan, and Bangkok locations; please call or email us at any of the addresses listed for more information.

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CATEGORY INDEX

Carbon

Cement

Metal

Glass

Polymer

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Natural

Process

MC#: 0139-12

Textile coating that offers high abrasion resistance. Ceramic particulates are incorporated into a compliant polymer matrix and deposited onto woven or knit textiles. Applications: extreme sports apparel, military apparel, footwear and motorcycling outerwear.



MC#: 2345-10

Vertical shading and drapery fabric with laminated wood veneer platelets, composed of 87% TR (tree) and 13% PL (polyester). The platelets are cut, stitched and applied by hand. Applications are for curtains/sheers.



MC#: 2687-13

Flexible tile veneer composed of mother of pearl shell fragments (thinner and more durable than Mother of Pearl™ also sold by this company) with a non-woven adhesive paper backing. Layers of genuine capiz shell are hand inlaid in a brick pattern tile that has a stain-resistant coating.



MC#: 2687-14

Decorative reflective wall covering composed of 1 mm (0.04 in) glass beads adhered to a metallic coated surface with a polyester non-woven backing and formaldehyde-free adhesive. Applications are for wallcoverings.



MC#: 2687-15

Hand-printed and hand-painted embossed wallcovering composed of vinyl (PVC) with a polyester non-woven backing and formaldehyde-free adhesive. It uses a custom designed embossing roller and three layers of hand-painting. Applications: wallcoverings.



MC#: 2687-16

Hand-dyed folded wallcovering composed of virgin pulp-based clay-coated white paper finished with water-based coatings and pigments and backed with a low-VOC clear strippable adhesive. Applications are for wallcoverings.



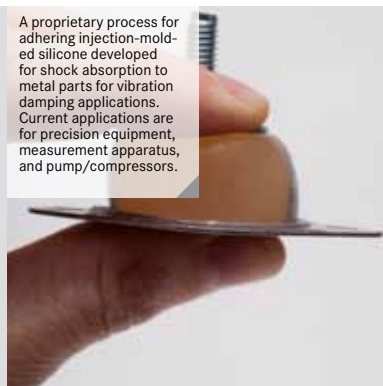
MC#: 4108-03

Static dissipative polymer for use in rapid prototyping machines. This acrylonitrile butadiene styrene (ABS) resin contains conductive particles that act as static dissipators for the molded part. Applications: production of rapidly prototyped parts for electronics.



MC#: 5086-16

A proprietary process for adhering injection-molded silicone developed for shock absorption to metal parts for vibration damping applications. Current applications are for precision equipment, measurement apparatus, and pump/compressors.



MC#: 5086-13

Silicone based sheet gel engineered for good thermal conductivity and heat dissipation. The gel has good electrical insulation and is flame retardant. Applications: computer internals, power transistors, power supply equipment, and electronic parts.



MC#: 5086-14

Silicone compounds that have magnetic iron-based particulates in extruded sheets. It is molded into custom sheets for use at elevated temperatures of 400°F and corrosion resistant applications that require a magnetic bond, such as in automobiles and appliances.



MC#: 5086-15

Soft paste-type (grease) gel that has thermal conducting properties. The paste is made up of cross-linked particles that eliminate the running and vaporization seen in traditional grease and phase change materials. Applications are for gaps around heat sources.



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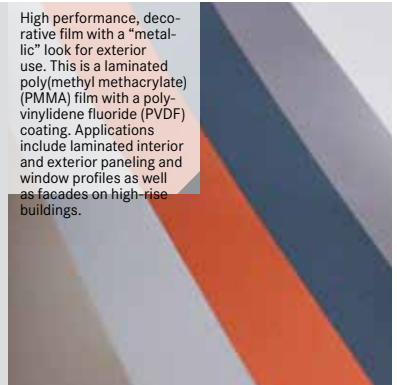
MC#: 5287-02

Decorative laminate film for exterior use. This is a two-layer film consisting of a transparent poly(methyl methacrylate) (PMMA) top on a polyvinyl chloride (PVC) base. Applications include laminated window frames & banks, weatherboards, doors and other outdoor profiles and surfaces.



MC#: 5287-03

High performance, decorative film with a "metallic" look for exterior use. This is a laminated poly(methyl methacrylate) (PMMA) film with a polyvinylidene fluoride (PVDF) coating. Applications include laminated interior and exterior paneling and window profiles as well as facades on high-rise buildings.



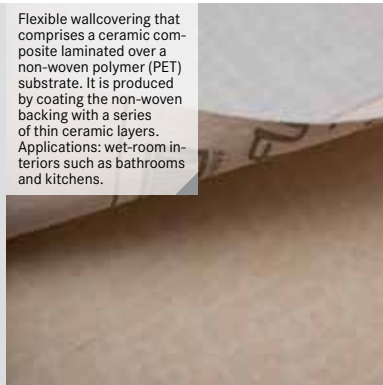
MC#: 5339-12

Decorative glass with a "stacked" surface effect. Layers of glass are fused together to create solid panels, and the face surface of each panel is staggered. Applications are for cladding columns, wall coverings, feature walls and bartops.



MC#: 5520-06

Flexible wallcovering that comprises a ceramic composite laminated over a non-woven polymer (PET) substrate. It is produced by coating the non-woven backing with a series of thin ceramic layers. Applications: wet-room interiors such as bathrooms and kitchens.



MC#: 5879-03

Self-adhesive squares for the glue-free installation of carpet tiles. These PET (polyethylene terephthalate)-based adhesive patches are used to affix carpet tiles to each other, instead of to the subfloor. Applications: carpet tile flooring in commercial and residential spaces.



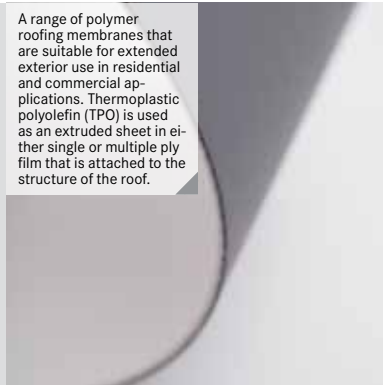
MC#: 5879-04

Carpet tiles with yarn and backing produced from recycled materials. This hardwearing, colorfast carpet is made with solution dyed polyamide yarns recycled from pre-consumer (70%) and post-consumer (30%) waste. Applications: commercial and residential flooring.



MC#: 6054-02

A range of polymer roofing membranes that are suitable for extended exterior use in residential and commercial applications. Thermoplastic polyolefin (TPO) is used as an extruded sheet in either single or multiple ply film that is attached to the structure of the roof.



MC#: 6068-08

Double-pointed chatons for decorative use on textiles. Small faceted glass crystals are non-uniformly arrayed to create irregular reflections and refractions on entire surface areas. Applications: apparel, fashion accessories, jewelry and interior decoration.



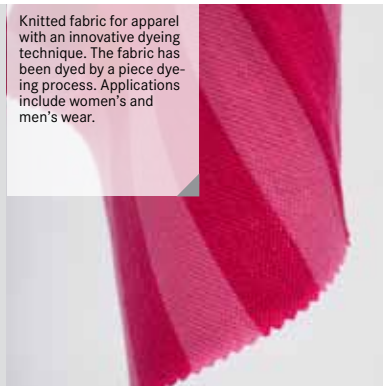
MC#: 6133-07

Textured upholstery textile composed of 100% polyurethane (PU) face and 100% polyester knit backing. It is free of PVC, formaldehyde, phthalate, BPA, antimony, lead & heavy metal and has low VOC with 99% of all water & raw materials used in production recycled.



MC#: 6359-04

Knitted fabric for apparel with an innovative dyeing technique. The fabric has been dyed by a piece dyeing process. Applications include women's and men's wear.



MC#: 6384-02

MDF panels covered with natural moss. This low maintenance material contributes to improving ambient air quality and absorbs 90% of the sound frequencies associated with speech. Applications: decoration and sound absorption on walls and ceilings in interior spaces.



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MC#: 6384-03

Wall covering panels made from cork bark. The top layer consists of 100% natural raw material and displays the deep 3-dimensional texture of the cork tree. Applications are for decoration and sound absorption on walls and ceilings in interior spaces.



MC#: 6556-03

Grown from agricultural byproducts and mushroom "roots" called mycelium. This material is 100% renewable, has low embodied energy, and is home compostable. Applications: protective packaging, molded consumer products, and for architectural applications.



MC#: 6799-04

FSC certified papers generated from renewable resources produced in accordance with environmental certification ISO 14001. It has a textured multi linear finish for easy printing. They can be cut, folded and used in packaging and printing media applications.



MC#: 6799-05

FSC certified papers generated from fibers coming from plants such as bamboo, cotton linters or bagasse (from sugar cane crushing), enabling high definition printing similar to matte coated paper while maintaining the tactile characteristics of traditional paper.



MC#: 6556-04

Grown from agricultural byproducts and mushroom "roots" called mycelium. This material is 100% renewable, has low embodied energy, and is home compostable. Applications: protective packaging, molded consumer products, and for architectural applications.



MC#: 6799-06

FSC certified papers generated from renewable resources produced in accordance with environmental certification ISO 14001. This single sided paper has very good strength and a tactile texture that feels like cloth but is like paper that can be cut and folded.



MC#: 6888-04

White body porcelain wall tiles that have a polished surface to create a glossy look. These porcelain tiles contribute to LEED credits (Recycled Content) and are available in 9.5 x 25 in (24 x 64 cm) tiles. Applications are for cladding.



MC#: 6889-02

Printed PU coated apparel and accessories textile that uses a non-woven backing to mimic the backing of real leather. This glossy metallic PU (polyurethane) surface is printed with a geometric pattern. Applications: apparel, accessories, footwear and upholstery.



MC#: 6890-02

Composite interior construction panels that incorporate a decorative laminate top surface and a backing layer. Rigid polyurethane foam (PUR) is sandwiched between a textured stone-veneer and an aluminum sheet, giving a strong, fire resistant lightweight panel.



MC#: 6890-03

Composite interior construction panels that incorporate an aluminum substrate top surface and a backing layer. Rigid polyurethane foam (PUR) is sandwiched between a top substrate surface and an aluminum sheet, giving a strong, fire resistant lightweight panel.



MC#: 6894-01

Knit stretch fabric that is suitable for sportswear. This warp knit 75% polyester 25% spandex two-way stretch fabric has good moisture wicking properties and easy machine washability. Applications: sports jerseys and interior sound transparency applications.



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MC#: 6895-01

Spun silk woven fabric made from spun silk yarn that is derived from 100% un-releable silk cocoons and silk waste. It is woven by a weaving machine, having un-dyed spun silk for both the warp and weft yarns, into a grey fabric with the original shiny cream color.



MC#: 6901-01

Elastomeric tape that has good fire retardant properties. This TPU (thermoplastic polyurethane) extruded film is cut for use as sealing tapes in apparel and industry. Applications: apparel for first responders such as fire fighters and other emergency services.



MC#: 6902-01

Durable digital printing process that is applied directly to glass surfaces without primers, adhesives or films. Applications: shower screens, windows, room dividers, stair rails, wall coverings, bathrooms & wellness areas, cabinets & showcases.



MC#: 6903-01

Large format flooring tiles made from hot-rolled mild steel. The steel's surface layer ("scale" or "slag"), which is normally removed before finishing, occurs during annealing after the hot-rolling process. Applications: retail & office flooring and wall decoration.



MC#: 6905-01

FSC certified decorative plywood veneer sheets made from North American Douglas Fir. It is produced from Oregon Pine harvested from replanted sustainable forestation. Applications: interior decoration, furniture, paneling, retail displays and wall coverings.



MC#: 6905-02

FSC certified decorative wood panels consisting of North American Douglas Fir veneer on an MDF core. The veneer is produced from Oregon Pine harvested from replanted sustainable forestation and the MDF is made from reclaimed wood fiber.



MC#: 6907-01

Wallcoverings composed of 30% paper board and 70% polyvinyl chloride (PVC) made from a paper base, then coated with polyvinylchloride (PVC), color painted and embossed or debossed to create the surface affect. Applications: residential wallcoverings.



MC#: 6908-01

100% silk organza (thin, plain weave, sheer fabric). This fabric is hand printed and dyed and has neon yellow and green flocking "spots" in an organic pattern. Applications are for fashion and interior design.



MC#: 6908-02

100% polyurethane (TPU) fabric with natural sisal (an agave that yields a stiff fiber traditionally used in making twine and rope) fibers covered by grey flocking on the surface, a process of depositing many small fiber particles (called flock) onto a surface.

